

Claims

- [c1] An IC socket for electrically connecting an IC chip to a printed circuit board comprising:
- a base mounted on the printed circuit board, said base comprising an engaging surface, a mounting surface, and a plurality of assembly holes defined between the engaging surface and the mounting surface, said assembly hole comprising a blocking surface and a through hole defined between the blocking surface and the mounting surface;
 - a plurality of resistant mechanism assembled in the assembly holes, each resistant mechanism comprising a pole having a first blocking member at one end thereof, a washer, a spring member and a second blocking member, said spring member bearing against the blocking surface of the assembly hole, said pole extending through the washer, the spring member and the through hole of the base, one end of the pole extending out therefrom, the extended end of the pole engaging with a second blocking member; and
 - a lid mounted on the base and defining holes aligned with corresponding poles of the resistant mechanism, said hole comprising a receiving hole for accommodating

the first blocking member and a step for pressing the washer, the diameter of the receiving hole being larger than an external diameter of the blocking member near to the cover and smaller than a diameter of the step.

- [c2] The IC socket as claimed in claim 1, wherein four side walls are defined between the engaging surface and the mounting surface.
- [c3] The IC socket as claimed in claim 2, wherein each of two opposite side walls of the base defines a triangle-sectioned step, and a corresponding edge of the lid defines hooks for engaging with the step.
- [c4] The IC socket as claimed in claim 1, wherein the second blocking member is a nut.
- [c5] The IC socket as claimed in claim 1, wherein the spring member is a coil spring.
- [c6] The IC socket as claimed in claim 1, wherein the pole extends through a washer, a spring member and the through hole of the base in sequence.
- [c7] The IC socket as claimed in claim 1, wherein the pole extends through the through hole of the base, the spring member and the washer in sequence.
- [c8] An IC socket comprising:

a base comprising assembly holes therein;
a plurality of resistant mechanisms provided in the assembly holes, each resistant mechanism defining an axle, a sliding assembly attaching to the axle for sliding along the axle from a pressed manner to a released manner;
a lid pressed on the sliding assembly and mounted onto the base;
wherein the sliding assembly is restricted for preventing the lid from being pressed in the released manner.

[c9] The IC socket as claimed in claim 8, wherein the assembly hole comprises a blocking surface and a through hole.

[c10] The IC socket as claimed in claim 9, wherein the sliding assembly comprises a pole having a first blocking member at one end thereof, a washer, a spring member bearing against the blocking surface of the assembly hole, and a second blocking member.

[c11] The IC socket as claimed in claim 10, wherein the spring member is a coil spring.

[c12] The IC socket as claimed in claim 8, wherein the lid defines holes aligned with corresponding sliding assembly of the resistant mechanism, the hole comprising a re-

ceiving hole and a step.

[c13] An IC socket assembly comprising:
a stationary base;
a lid mounted upon the base and slidable relative to said base in a vertical direction; and
a plurality of resistant mechanisms disposed in a periphery region of the base, respectively, each of said resistant mechanisms including a spring device; wherein each of said resistant mechanism defines a moveable upper structure which constantly receives an upwardly urging force due to said spring device so as to engage the lid and further resist downward movement of the lid when said lid is in a tensioned condition, while said moveable upper structure abuts against a fixed portion of either the resistant mechanism or the base when said lid is in a relaxed condition so as to prevent said upwardly urging force from applying to the lid when said lid in the relaxed condition.

[c14] The IC socket assembly as claimed in claim 13, wherein said resistant mechanism includes a pole, and said fixed portion is a first blocking member attached to an upper end of the pole.

[c15] The IC socket assembly as claimed in claim 14, wherein said resistant member further includes a second block-

ing member attached to a lower end of the pole.

- [c16] The IC socket assembly as claimed in claim 15, wherein said base is seated upon the a printed circuit board.
- [c17] The IC socket assembly as claimed in claim 16, wherein the lower end of the pole is supportably seated upon the printed circuit board.
- [c18] The IC socket assembly as claimed in claim 13, wherein said spring is moveably located in a corresponding hole in the base.
- [c19] The IC socket assembly as claimed in claim 13, wherein said moveable upper structure is a washer associated with an upper end of the spring.
- [c20] The IC socket assembly as claimed in claim 13, further including an interlocking device on said base and said lid for preventing the lid from be dropped from the base when said lid is in the relaxed condition.